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1 Texture-based visibility for efficient lighting simulation
Cyril Soler, F. X. Sillion
October 2000 **ACM Transactions on Graphics (TOG)**, Volume 19 Issue 4

Full text available: 📄 pdf(1.71 MB)   Additional Information: full citation, abstract, references, citings, index terms

Lighting simulations using hierarchical radiosity with clustering can be very slow when the computation of fine and artifact-free shadows is needed. To avoid the high cost of mesh refinement associated with fast variations of visibility across receivers, we propose a new hierarchical algorithm in which partial visibility maps can be computed on the fly, using a convolution technique for emitter-receiver configurations where complex shadows are produced. Other configurations still rely on m ...

Keywords: convolution, global illumination, hierarchical radiosity, texture-based visibility

2 TeleNotes: managing lightweight interactions in the desktop
Steve Whittaker, Jerry Swanson, Jakov Kucan, Candy Sidner
June 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 2

Full text available: 📄 pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

Communication theories and technology have tended to focus on extended, formal meetings and have neglected a prevalent and vital form of workplace communication—namely, lightweight communication. Unlike formal, extended meetings, lightweight interaction is brief, informal, unplanned, and intermittent. We analyze naturalistic data from a study of work-place communication and derive five design criteria for lightweight interaction systems. These criteria require that systems for lightwe ...

Keywords: audio, awareness, computer-media spaces, conversation management, impromptu communication, informal communication, interpersonal communications, lightweight interaction, mediated communication, remote collaboration, task management, video

3 Concept-based knowledge discovery in texts extracted from the Web
Stanley Loh, Leandro Krug Wives, José Palazzo M. de Oliveira
June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1

Full text available: pdf(1.28 MB)   Additional Information: full citation, index terms

Keywords: categorization, data mining, information extraction, knowledge discovery, text mining

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